1983 EDITORIAL INDEX

AIR POLLUTION CONTROLS

Heat Recovery Incinerator Yields Warm Air & Cold Cash.....Jan.
Dust Collector Captures Smoke, Improves Visibility.....Jan.
Finding the Right Person.....Jan.
Information Management: How Computers Can Help Environmental Managers.....Jan.
Hand Calculator Programs for Stack Particulate Tests.....Jan.
Meeting the Financial Responsibilities for Environmental Impairment.....Jan.
EPA Regulations Under Consideration.....Jan.
Early Attention to Regulatory and Environmental Issues Keeps Energy Project on Schedule.....Feb.
Military Wages War on Pollution.....Feb.
Cutting Oil Smoke Washed Away By Better Mixture.....Feb.
Alloys Eliminate Salt Air Corrosion.....March
Dust From Casting Process Controlled; Cost of Heat & Conditioned Air Reduced.....March
Graphic Arts Static Gets Zapped.....March
Design Tips for Better O&M.....March
Survey Reveals Hot-Side Precipitator Performance.....March
Operating and Trouble-Shooting Precipitators.....March
Do-It-Yourself Boiler Energy Analysis.March
Fan Acoustic Basics: Part I.....March
Analyzing Emission Controls for Power Plants.....April
Shreveport Incinerator Installs BAT for Air and Water Emissions.....April
Fan Acoustic Basics: Part II.....April
Methods for Attaining VOC Compliance.....April
Co-Incineration/Energy Recovery Of Liquid and Solid Wastes.....April
Solution to a Smoky Problem.....April
Computer-Generated Database for Environmental Compliance.....April
Dust-Control System Guards Against Fire.....April
Past & Present of a FGD System.....April
New Catalyst Passes the Test.....April
Solution to a Dusty Problem.....May
Massive Decontamination Project.....May
It's a Ten.....June
Honesty vs Corporate Policy.....June
Destruction of PCB's in Cement Kilns.....June
Contractor Speeds Cleanup By Driving to the Dust.....July
RACT for VOC—A Burning Issue.....July
Calculator Program for a Waste Heat Boiler.....July
Low Excess Air Burners Reduce Emissions.....Aug.
Wet/Dry Gas Measuring.....Aug.
The Safe Way.....Aug.
Calibration Gases—The Economics Of Mixing Your Own.....Aug.
GC or GC-MS?.....Aug.
Tolerable Levels of Radio-Frequency Radiation.....Aug.
A Proposed Extension of EPA Method 1 Criteria.....Aug.
Odor Control for Sludge Dryers.....Sept.
Small Quantities are Harmful Too.....Oct.
Controlling Combustion Saves And Saves.....Nov.
An Emergency Response System is Not Just for Emergencies.....Nov.
TLV's For Non-Standard Work Schedules.....Nov.
A New Approach to Production Rate Measurement In Sulfuric Acid Plants.....Nov.
Cat Makes Tracks to Stomp Out H_2S.....Nov.
EPA Annual Report.....Dec.

CHEMICAL TREATMENT

Motionless Mixer Eliminates Flocculation Problems.....Jan.
Meeting the Financial Responsibilities for Environmental Impairment..Jan.
EPA Regulations Under Consideration.....Jan.
Superfund Protects Water Supply With Standby Carbon Systems.....Feb.
Military Wages War on Pollution.....Feb.
Be Prepared—Hazardous Material Spills.....Feb.
Cutting Oil Smoke Washed Away By Better Mixture.....Feb.
Oxidation Ditches Get Results at Wastewater Treatment Plant.....March
Designing Plug Flow Lagoons Using Two-Stage Aeration.....March
Award Winning Wastewater Treatment Plant.....March
Chrome Electroplating Waste BAT.....April
Methods for Attaining VOC Compliance.....April
Co-Incineration/Energy Recovery Of Liquid and Solid Wastes.....April
New Catalyst Passes the Test.....April
A Colorful Idea.....May
They Go Together.....May
A Piece of Cake.....May
Honesty vs Corporate Policy.....June
Destruction of PCB's in Cement Kilns.....June
No Strain Self-Cleaner.....July
The Big Decision—Letting A Company Do A City's Job.....July
Planning Saves Space and Cost For Community.....July
Appraising Wastewater Discharge Compliance Levels.....July
Triple Action.....July
Finding pH of Mixed Variable Streams.....Aug.
Calibration Gases—The Economics Of Mixing Your Own.....Aug.
Automate Your Diluter.....Aug.
Measuring the Market for Water Instruments.....Aug.
Making Chlorine Measurement Better.....Aug.
Removes 91% BOD and Suspended Solids.....Sept.
Water—New Business Opportunities.Sept.
Spirit Lake After the Blast.....Sept.
Effects of Industrial Boiler Blowdown Discharges on Streams.....Sept.
Dual Systems Best for Dual Wastes..Sept.
Odor Control for Sludge Dryers.....Sept.
Dual Lining System.....Oct.
Re-Refining Oil Makes a Difference...Oct.
Biodecontamination of Spill Sites.....Nov.
Metal Alloyer Mixes Technologies To Get Zero Discharge.....Nov.
Cat Makes Tracks to Stomp Out H_2S.....Nov.
EPA Annual Report.....Dec.

COATINGS AND CONSTRUCTION MATERIALS

From the Deep Come the Seabed Drifters.....Feb.
Alloys Eliminate Salt Air Corrosion.....March
Screen Cut Cost of Primary Treatment.....March
Design Tips for Better O&M.....March
Survey Reveals Hot-Side Precipitator Performance.....March
Zero Sealing—An End to Valve Stem Leakage.....March
Operating and Trouble-Shooting Precipitators.....March
Designing Plug Flow Lagoons Using Two-Stage Aeration.....March
Fan Acoustic Basics: Part I.....March
Conveyor Belts Add to Safety At Lone Star.....March
Chrome Electroplating Waste BAT.....April
Analyzing Emission Controls For Power Plants.....April
Shreveport Incinerator Installs BAT For Air and Water Emissions.....April
Fan Acoustic Basics: Part II.....April
Methods for Attaining VOC Compliance.....April
Co-Incineration/Energy Recovery of Liquid and Solid Wastes.....April
A Colorful Idea.....May
Massive Decontamination Project.....May
Hot Potato.....June
Putting the Lid On Chemical Waste Sites—A Basic Approach.....June
Destruction of PCB's in Cement Kilns.....June
No Strain Self-Cleaner.....July
Caissons Keep Bluff From Rolling Down.....July
Planning Saves Space and Cost For Community.....July
Appraising Wastewater Discharge Compliance Levels.....July
System Solves Hopeless Situation.....July
Groundwater Monitoring Well Primer.Aug.
Measuring the Market for Water Instruments.....Aug.
Tolerable Levels of Radio-Frequency Radiation.....Aug.
Water—New Business Opportunities.Sept.
Spirit Lake After the Blast.....Sept.
Certifying Water/Wastewater Construction Inspectors.....Sept.
Effects of Industrial Boiler Blowdown Discharges on Streams.Sept.
Dual Systems Best for Dual Wastes..Sept.
Odor Control For Sludge Dryers.....Sept.
Wet Wells Control Treatment Process.....Sept.
Dual Lining System.....Oct.
Through Rain and Sleet and Snow...Nov.
The Case for Aboveground Landfills.Nov.
Metal Alloyer Mixes Technologies To Get Zero Discharge.....Nov.
Geotextiles Plus Geomembranes Make Containment Better.....Nov.
EPA Annual Report.....Dec.

COMPUTERS AND DATA SYSTEMS

Information Management: How Computers Can Help Environmental Managers.....Jan.
Hand Calculator Programs for Stack Particulate Tests.....Jan.
Calculate Water-Filled Pipes.....Jan.
Be Prepared—Hazardous Material Spills.....Feb.
From the Deep Come the Seabed Drifters.....Feb.
Use of Collapsible Boxes Saves 75% Handling Contaminant Material.....March
Analyzing Emission Controls For Power Plants.....April
Computer-Generated Database for Environmental Compliance.....April
Calculator Program for A Waste Heat Boiler.....July
Appraising Wastewater Discharge Compliance Levels.....July
Wet/Dry Gas Measuring.....Aug.
The Safe Way.....Aug.
Finding pH of Mixed Variable Streams.....Aug.
Calibration Gases—The Economics Of Mixing Your Own.....Aug.

GC or GC-MS?....Aug.
Measuring the Market for Water Instruments....Aug.
Making Chlorine Measurement Better....Aug.
Water—New Business Opportunities.Sept.
Controlling Combustion Saves And Saves....Nov.
An Emergency Response System is Not Just For Emergencies....Nov.
EPA Annual Report....Dec.

ENERGY CONSERVATION

Heat Recovery Incinerator Yields Warm Air & Cold Cash....Jan.
Information Management: How Computers Can Help Environmental Managers....Jan.
Early Attention to Regulatory and Environmental Issues Keeps Energy Project on Schedule....Feb.
Military Wages War on Pollution....Feb.
Graphic Arts Static Gets Zapped....March
Design Tips for Better O&M....March
Survey Reveals Hot-Side Precipitator Performance....March
Operating and Trouble-Shooting Precipitators....March
Do-It-Yourself Boiler Energy Analysis.March
Award Winning Wastewater Treatment Plant....March
Chrome Electroplating Waste BAT....April
Analyzing Emission Controls for Power Plants....April
Shreveport Incinerator Installs BAT For Air and Water Emissions....April
Methods for Attaining VOC Compliance....April
Co-Incineration/Energy Recovery Of Liquid and Solid Wastes....April
They Go Together....May
Solution to A Dusty Problem....May
Massive Decontamination Project....May
Destruction of PCB's in Cement Kilns....June
No Strain Self-Cleaner....July
Contractor Speeds Cleanup By Driving to the Dust....July
Calculator Program For A Waste Heat Boiler....July
Appraising Wastewater Discharge Compliance Levels....July
The Safe Way....Aug.
Finding pH of Mixed Variable Streams....Aug.
Measuring the Market for Water Instruments....Aug.
Tolerable Levels of Radio-Frequency Radiation....Aug.
Water—New Business Opportunities.Sept.
Odor Control for Sludge Dryers....Sept.
Small Quantities Are Harmful Too....Oct.
Recovery of Plating Salts—A Real Saver....Oct.
Controlling Combustion Saves And Saves....Nov.
The Case for Aboveground Landfills....Nov.
Cat Makes Tracks To Stomp Out H_2S....Nov.
EPA Annual Report....Dec.

HAZARDOUS AND SOLID WASTES

Heat Recovery Incinerator Yields Warm Air & Cold Cash....Jan.
Finding the Right Person....Jan.
Information Management: How Computers Can Help Environmental Managers....Jan.
Meeting the Financial Responsibilities for Environmental Impairment....Jan.
EPA Regulations Under Consideration....Jan.
Superfund Protects Water Supply With Standby Carbon Systems....Feb.
Taegu....Feb.
Star Spangled Tunnel....Feb.
Military Wages War on Pollution....Feb.
Be Prepared—Hazardous Material Spills....Feb.
Screen Cut Cost of Primary Treatment....March
Zero-Sealing—An End to Valve Stem Leakage....March
Designing Plug Flow Lagoons Using Two-Stage Aeration....March
Conveyor Belts Add to Safety At Lone Star....March
Use of Collapsible Boxes Saves 75% Handling Contaminant Material....March
Chrome Electroplating Waste BAT....April
Shreveport Incinerator Installs BAT For Air and Water Emissions....April
Methods for Attaining VOC Compliance....April
Co-Incineration/Energy Recovery of Liquid and Solid Wastes....April
Computer-Generated Database for Environmental Compliance....April
Reclaims $12,500 Worth of Oil In One Year....April
A Colorful Idea....May
They Go Together....May
Solution To A Dusty Problem....May
Massive Decontamination Project....May
A Piece of Cake....May
Hot Potato....June
Honesty vs Corporate Policy....June
Putting the Lid On Chemical Waste Sites—A Basic Approach....June
Destruction of PCB's in Cement Kilns....June
A Sampling Wizard....July
No Strain Self-Cleaner....July
Contractor Speeds Cleanup By Driving to the Dust....July
RACT for VOC—A Burning Issue....July
Planning Saves Space And Cost For Community....July
Appraising Wastewater Discharge Compliance Levels....July
System Solves Hopeless Situation....July
Wet/Dry Gas Measuring....Aug.
The Safe Way....Aug.
Groundwater Monitoring Well Primer.Aug.
Measuring the Market for Water Instruments....Aug.
Remote Control Eases Radioactivity Concerns....Sept.
Liners A Must for Haz Waste Landfills....Sept.
Stiff EPA Regulations Profit Company....Sept.
Water—New Business Opportunities.Sept.
Spirit Lake After the Blast....Sept.
Effects of Industrial Boiler Blowdown Discharges On Streams....Sept.
Dual Systems Best for Dual Wastes..Sept.
Odor Control For Sludge Dryers....Sept.
Wet Wells Control Treatment Process....Sept.
Re-Refining Oil Makes A Difference..Oct.
Coping With Sludge Elevating....Nov.
Through Rain and Sleet and Snow...Nov.
An Emergency Response System is Not Just For Emergencies....Nov.
Biodecontamination of Spill Sites....Nov.
The Case for Aboveground Landfills.Nov.
Geotextiles Plus Geomembranes Make Containment Better....Nov.
TLV's For Non-Standard Work Schedules....Nov.
EPA Annual Report....Dec.

INSTRUMENTATION AND ANALYSIS

Information Management: How Computers Can Help Environmental Managers....Jan.
Hand Calculator Programs for Stack Particulate Tests....Jan.
EPA Regulations Under Consideration....Jan.
Taegu....Feb.
Military Wages War on Pollution....Feb.
Be Prepared—Hazardous Material Spills....Feb.
From the Deep Come the Seabed Drifters....Feb.
Do-It-Yourself Boiler Energy Analysis.March
Analyzing Emission Controls For Power Plants....April
Shreveport Incinerator Installs BAT For Air and Water Emissions....April
Fan Acoustic Basics: Part II....April
Methods for Attaining VOC Compliance....April
Co-Incineration/Energy Recovery of Liquid and Solid Wastes....April
Computer-Generated Database for Environmental Compliance....April
New Catalyst Passes the Test....April
A Colorful Idea....May
They Go Together....May
Massive Decontamination Project....May
Honesty vs Corporate Policy....June
Putting the Lid On Chemical Waste Sites—A Basic Approach....June
Destruction of PCB's in Cement Kilns....June
A Sampling Wizard....July
No Strain Self-Cleaner....July
RACT for VOC—A Burning Issue....July
Planning Saves Space and Cost For Community....July
Calculator Program for a Waste Heat Boiler....July
Appraising Wastewater Discharge Compliance Levels....July
Triple Action....July
Wet/Dry Gas Measuring....Aug.
The Safe Way....Aug.
Finding pH of Mixed Variable Streams....Aug.
Calibration Gases—The Economics Of Mixing Your Own....Aug.
Groundwater Monitoring Well Primer.Aug.
Automate Your Diluter....Aug.
GC or GC-MS?....Aug.
Measuring the Market for Water Instruments....Aug.
Tolerable Levels of Radio-Frequency Radiation....Aug.
A Proposed Extension of EPA Method 1 Criteria....Aug.
Making Chlorine Measurement Better....Aug.
Remote Control Eases Radioactivity Concerns....Sept.
Liners A Must for Haz Waste Landfills....Sept.
Water—New Business Opportunities.Sept.
Spirit Lake After the Blast....Sept.
Certifying Water/Wastewater Construction Inspectors....Sept.
Effects of Industrial Boiler Blowdown Discharges on Streams....Sept.
Dual Systems Best for Dual Wastes..Sept.
Wet Wells Control Treatment Process....Sept.
Controlling Combustion Saves And Saves....Nov.
An Emergency Response System Is Not Just for Emergencies....Nov.
TLV's For Non-Standard Work Schedules....Nov.
A New Approach to Production Rate Measurement in Sulfuric Acid Plants....Nov.
EPA Annual Report....Dec.

NOISE AND RADIATION

EPA Regulations Under Consideration....Jan.

Military Wages War on Pollution.....Feb.
Be Prepared—Hazardous Material Spills.....Feb.
Graphic Arts Static Gets Zapped.....March
Fan Acoustic Basics: Part I.....March
Fan Acoustic Basics: Part II.....April
Computer-Generated Database for Environmental Compliance.....April
Tolerable Levels of Radio-Frequency Radiation.....Aug.
TLV's For Non-Standard Work Schedules.....Nov.
EPA Annual Report.....Dec.

O&M EQUIPMENT AND SERVICES

EPA Regulations Under Consideration.....Jan.
Military Wages War on Pollution.....Feb.
Be Prepared—Hazardous Material Spills.....Feb.
Screen Cuts Costs of Primary Treatment.....March
Design Tips for Better O&M.....March
Survey Reveals Hot-Side Precipitator Performance.....March
Zero-Sealing—An End to Valve Stem Leakage.....March
Operating and Trouble-Shooting Precipitators.....March
Designing Plug Flow Lagoons Using Two-Stage Aeration.....March
Do-It-Yourself Boiler Energy Analysis.March
Award Winning Wastewater Treatment Plant.....March
Shreveport Incinerator Installs BAT For Air and Water Emissions.....April
Methods for Attaining VOC Compliance.....April
Co-Incineration/Energy Recovery of Liquid and Solid Wastes.....April
Reclaims $12,500 Worth of Oil in One Year.....April
A Colorful Idea.....May
Massive Decontamination Project.....May
Hot Potato.....June
Putting the Lid On Chemical Waste Sites—A Basic Approach.....June
No Strain Self-Cleaner.....July
Contractor Speeds Cleanup By Driving to the Dust.....July
The Big Decision—Letting A Company Do A City's Job.....July
Planning Saves Space and Cost For Community.....July
System Solves Hopeless Situation.....July
Triple Action.....July
Low Excess Air Burners Reduce Emissions.....Aug.
Measuring the Market for Water Instruments.....Aug.
Making Chlorine Measurement Better.....Aug.
Remote Control Eases Radioactivity Concerns.....Sept.
Water—New Business Opportunities.Sept.
Certifying Water/Wastewater Construction Inspectors.....Sept.
Effects of Industrial Boiler Blowdown Discharges on Streams.....Sept.
Dual Systems Best for Dual Wastes..Sept.
Odor Control For Sludge Dryers.....Sept.
Wet Wells Control Treatment Process.....Sept.
Re-Refining Oil Makes A Difference..Oct.
Super Sludge Removal Technique....Oct.
The Case for Aboveground Landfills.Nov.
Geotextiles Plus Geomembranes Make Containment Better.....Nov.
EPA Annual Report.....Dec.

PUMPS, PIPES, VALVES

Submersible Centrifugal Pumps End Problem of Flooding.....Jan.
Calculate Water-Filled Pipes.....Jan.
Star Spangled Tunnel.....Feb.
Military Wages War on Pollution.....Feb.
Shift to Diaphragm Pumps End Post Holing.....Feb.
Alloys Eliminate Salt Air Corrosion.....March
Zero Sealing—An End to Valve Stem Leakage.....March
Designing Plug Flow Lagoons Using Two-Stage Aeration.....March
Award Winning Wastewater Treatment Plant.....March
Chrome Electroplating Waste BAT.....April
Co-Incineration/Energy Recovery of Liquid and Solid Wastes.....April
Reclaims $12,500 Worth of Oil In One Year.....April
A Colorful Idea.....May
They Go Together.....May
Massive Decontamination Project.....May
A Sampling Wizard.....July
No Strain Self-Cleaner.....July
The Big Decision—Letting A Company Do A City's Job.....July
Planning Saves Space and Cost For Community.....July
Appraising Wastewater Discharge Compliance Levels.....July
System Solves Hopeless Situation.....July
Triple Action.....July
Finding pH of Mixed Variable Streams.....Aug.
Groundwater Monitoring Well Primer.Aug.
Automate Your Diluter.....Aug.
Measuring the Market for Water Instruments.....Aug.
Making Chlorine Measurement Better.....Aug.
Water—New Business Opportunities.Sept.
Spirit Lake After the Blast.....Sept.
Certifying Water/Wastewater Construction Inspectors.....Sept.
Effects of Industrial Boiler Blowdown Discharges On Streams.....Sept.
Dual Systems Best for Dual Wastes..Sept.
Odor Control For Sludge Dryers.....Sept.
Wet Wells Control Treatment Process.....Sept.
Metal Alloyer Mixes Technologies To Get Zero Discharge.....Nov.
EPA Annual Report.....Dec.

VIEWPOINTS

Annie Get Your Gun.....Jan.
The February March.....Feb.
Watch Out For Leprechauns.....March
In Like Lions, Out Like Lambs.....April
A Crazy DOE Or A Sneaky Fox.....May
It's a FONSI—Heeey!.....June
Buffalo Bill Rides Again.....July
Performance Evaluation—J. Lynn Helms.....Aug.
Our Gross National Product.....Sept.
EPA and Big Brother—Hand In Hand.....Oct.
Don't Ask.....Nov.
KAPU?.....Dec.

WATER AND WASTEWATER TREATMENT

Submersible Centrifugal Pumps End Problem of Flooding.....Jan.
Motionless Mixer Eliminates Flocculation Problems.....Jan.
Finding the Right Person.....Jan.
Information Management: How Computers Can Help Environmental Managers.....Jan.
Meeting the Financial Responsibilities for Environmental Impairment.....Jan.
EPA Regulations Under Consideration.....Jan.
Calculate Water-Filled Pipes.....Jan.
Superfund Protects Water Supply With Standby Carbon Systems.....Feb.
Taegu.....Feb.
Star Spangled Tunnel.....Feb.
Military Wages War on Pollution.....Feb.
Be Prepared—Hazardous Material Spills.....Feb.
From the Deep Come the Seabed Drifters.....Feb.
Shift to Diaphragm Pumps Ends Post Holing.....Feb.
Screen Cuts Costs of Primary Treatment.....March
Oxidation Ditches Get Results at Wastewater Treatment Plant.....March
Zero Sealing—An End to Valve Stem Leakage.....March
Designing Plug Flow Lagoons Using Two-Stage Aeration.....March
Award Winning Wastewater Treatment Plant.....March
Chrome Electroplating Waste BAT.....April
Shreveport Incinerator Installs BAT For Air and Water Emissions.....April
Co-Incineration/Energy Recovery of Liquid and Solid Wastes.....April
Computer-Generated Database for Environmental Compliance.....April
Reclaims $12,500 Worth of Oil in One Year.....April
A Colorful Idea.....May
They Go Together.....May
Hot Potato.....June
Honesty vs Corporate Policy.....June
Putting the Lid On Chemical Waste Sites—A Basic Approach.....June
A Sampling Wizard.....July
Caissons Keep Bluff from Rolling Down.....July
The Big Decision—Letting A Company Do A City's Job.....July
Planning Saves Space and Cost For Community.....July
Appraising Wastewater Discharge Compliance Levels.....July
System Solves Hopeless Situation.....July
Triple Action.....July
Finding pH of Mixed Variable Streams.....Aug.
Groundwater Monitoring Well Primer.Aug.
Automate Your Diluter.....Aug.
GC or GC-MS?.....Aug.
Measuring the Market for Water Instruments.....Aug.
Making Chlorine Measurement Better.....Aug.
Stiff EPA Regulations Profit Company.....Sept.
Removes 91% BOD and Suspended Solids.....Sept.
Water—New Business Opportunities.Sept.
Spirit Lake After the Blast.....Sept.
Certifying Water/Wastewater Construction Inspectors.....Sept.
Effects of Industrial Boiler Blowdown Discharges On Streams.....Sept.
Dual Systems Best for Dual Wastes..Sept.
Odor Control For Sludge Dryers.....Sept.
Wet Wells Control Treatment Process.....Sept.
Dual Lining Systems.....Oct.
Re-Refining Oil Makes a Difference...Oct.
Recovery of Plating Salts—A Real Saver.....Oct.
Super Sludge Removal Technique....Oct.
Another Cost-Cutting Idea.....Oct.
Coping With Sludge Elevating.....Nov.
Through Rain and Sleet and Snow...Nov.
An Emergency Response System is Not Just For Emergencies.....Nov.
Biodecontamination of Spill Sites.....Nov.
The Case for Aboveground Landfills.Nov.
Metal Alloyer Mixes Technologies To Get Zero Discharge.....Nov.
Geotextiles Plus Geomembranes Make Containment Better.....Nov.
EPA Annual Report.....Dec.